UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/725,144	12/01/2003	Christopher J. Stone	BCS03191	1770

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EXAMINER
BOSS, BROCK N

ART UNIT	PAPER NUMBER
2623	

NOTIFICATION DATE	DELIVERY MODE
01/15/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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PTOL-90A (Rev. 04/07)

	Application No.	Applicant(s)
Office Action Summary	10/725,144	STONE ET AL.
	Examiner	Art Unit
	Brock N. Boss	2623

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☐ Responsive to communication(s) filed on _____ .

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-26* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-26* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *01 December 2003* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some * c)☒ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____ .

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
    Paper No(s)/Mail Date *2/09/2004*.

4) ☐ Interview Summary (PTO-413)
    Paper No(s)/Mail. Date. _____ .

5) ☐ Notice of Informal Patent Application

6) ☐ Other: _____ .

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on

sale in this country, more than one year prior to the date of application for patent in the United States.

2.   **Claims 1-2** and **14-15** are rejected under 35 U.S.C. 102(b) as being anticipated by

Shintani (US Patent Number 6,490,002 B1).

Regarding **claims 1** and **14**, Shintani discloses a method and a source device for passing

an on-screen display (see column 3, lines 25-32) over a serial interface (e.g. IEEE 1394),

comprising: detecting at a source device (see Figure 1, STB 100) an action (see column 6, lines

30-40) (see column 6, lines 7-10) requiring an on-screen display at a sink device (see column 6,

lines 39-40) (see also column 5, lines 51-53); encoding from the STB can be extracted from the

digital transport stream at the source device (via Figure 5, element 370) (see column 7, lines 26-

38) as an isochronous MPEG data stream Shintani discloses the on-screen display information

from the source device can be extracted from the digital transport stream. Necessarily, since the

video stream is MPEG encoded, the OSD must also be MPEG encoded at the STB to decode the

MPEG signal by the MPEG decoder of the HDTV (see column 7, lines 21-43) (see column 2,

lines 35-40) (see column 5, lines 60-67) (see also column 6, lines 4-5); and passing said

isochronous MPEG data stream carrying said on-screen display to said sink device via said serial

interface (see column 3, lines 8-12) (see also column 3, lines 25-31). With respect to claim 14,

Shintani discloses a processor adapted for detecting an action requiring an on-screen display at

said sink device (see Figure 3, element 350) (see also column 6, lines 25-40), and a tuner (see

Figure 1, element 210) (see column 4, lines 34-35) adapted for receiving an active isochronous

MPEG data stream and graphic data for an on-screen display (see column 7, lines 36-44).

Shintani discloses the on-screen display information from the source device can be extracted

from the digital transport stream. Necessarily, since the video stream is MPEG encoded, the

OSD must also be MPEG encoded at the STB to decode the MPEG signal by the MPEG decoder

of the HDTV.

Regarding **claim 2** and **15**, Shintani discloses everything as claimed above (see claims 1

and 14). In addition, Shintani discloses the method and the source device, wherein: said serial

interface comprises an IEEE-1394 interface (see column 4, lines 14-18).

Claim Rejections - 35 USC § 103

3.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in
> section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are
> such that the subject matter as a whole would have been obvious at the time the invention was made to a person
> having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the
> manner in which the invention was made.

4.   **Claims 3-13** and **16-26** are rejected under 35 U.S.C. 103(a) as being unpatentable over

Shintani (US Patent Number 6,490,002) in view of Lownes et al. (US Patent Number 6,137,539).

Regarding **claim 3** and **16**, Shintani discloses everything as claimed above (see claims 1 and 14). In addition, Shintani discloses the method and the source device, further comprising: providing said isochronous MPEG data stream carrying said on-screen display (see column 7, lines 22-42).

However, Shintani does not disclose MPEG data stream carrying on-screen display with an associated program identifier.

In an analogous art, Lownes discloses providing said isochronous MPEG data stream carrying said on-screen display (see column 5, lines 23-44) with an associated program identifier (PID) (see column 5, lines 66-67; column 6, lines 1-9); multiplexing the isochronous MPEG data stream carrying said on-screen display and said associated PID with an active isochronous MPEG data stream to provide a multiplexed transport stream (see column 5, lines 66-67; column 6, lines 1-9); and wherein said isochronous data stream carrying said on-screen display is passed to said sink device in said multiplexed transport stream (see column 4, lines 8-22).

It would have been obvious to one of ordinary skill in the art at the time of Applicant's invention, to modify Shintani's invention to include an associated program identifier, multiplexing the associated PID with an active isochronous MPEG data stream to provide a multiplexed transport stream; and wherein said isochronous data stream carrying said on-screen display is passed to said sink device in said multiplexed transport stream for the predictable result of allowing a sink device such as a HDTV to more easily communicate program information such as channel information with a source device, such as an STB, thus preventing errors which could confuse a user or programmer. By communicating PID's to the sink device

from the source device, an OSD could be properly displayed as according to a viewer or user's settings.

Regarding **claims 4** and **17**, Shintani and Lownes disclose everything as claimed above (see claims 3 and 16). In addition, Lownes discloses the method and the source device, further comprising: modifying a program map table (see column 4, lines 33-45) of the multiplexed transport stream to point to the PID of the isochronous data stream carrying said on-screen display (see column 5, lines 23-44) rather than a PID of a video component of said active isochronous MPEG data stream (see column 5, lines 66-67; column 6, lines 1-9).

Regarding **claims 5** and **18**, Shintani and Lownes disclose everything as claimed above (see claims 3 and 16). In addition, Shintani discloses the method and the source device, further comprising: modifying a program map table (see column 4, lines 33-45) of the multiplexed transport stream to identify the isochronous data stream carrying the on-screen display as a secondary video source, wherein a video component of said active isochronous MPEG data stream comprises a primary video source display (see column 5, lines 51-61).

Regarding **claims 6** and **19**, Shintani and Lownes disclose everything as claimed above (see claims 1 and 14). In addition, Shintani discloses the method and source device wherein: the isochronous MPEG data stream carrying said on-screen display and an active isochronous MPEG data stream are provided to said serial interface as separate transport streams to be passed to said sink device; and audio/video control commands are provided to said serial interface to enable a selection between said active isochronous MPEG data stream and said isochronous MPEG data stream carrying said on-screen display (see column 7, lines 21-42).

Regarding **claims 7** and **20**, Shintani and Lownes disclose everything as claimed above

(see claims 3 and 16). In addition, Shintani discloses the method and the source device, further

comprising: multiplexing said isochronous MPEG data stream carrying said on-screen display

with an active isochronous MPEG data stream to produce a multiplexed transport stream wherein

said isochronous MPEG data stream carrying said on-screen display is substituted in place of an

active video component of said active isochronous MPEG data stream (see column 5, lines 60-

67; column 6, line 1); wherein said isochronous MPEG data stream carrying said on-screen

display is passed to said sink device in said transport stream (see column 7, lines 21-42).

Regarding **claims 8** and **21**, Shintani and Lownes disclose everything as claimed above

(see claim 7 and 20). In addition, Lownes the method and the source device, further comprising:

maintaining a program identifier (PID) of said active video component as a PID of the

isochronous MPEG data stream carrying said on-screen display (see column 7, lines 1-9).

Regarding **claims 9** and **22**, Shintani and Lownes disclose everything as claimed above

(see claims 1 and 14). In addition, Shintani discloses the method and the source device, further

comprising; receiving said isochronous MPEG data stream carrying said on-screen display at

said sink device; and decoding said isochronous MPEG data stream carrying said on-screen

display to provide said on-screen display (see column 7, lines 21-42).

Regarding **claims 10** and **23**, Shintani and Lownes disclose everything as claimed above

(see claim 1). In addition, Shintani discloses the method and the source device, wherein: said

source device comprises a television terminal; and said sink device comprises a high definition

television (see column 3, lines 24-32).

Regarding **claims 11** and **24**, Shintani and Lownes disclose everything as claimed above

(see claim 1). In addition, Lownes discloses the method and the source device, wherein: said on-

screen display comprises one of an electronic programming guide, a diagnostic menu, a video-on-demand menu, an advertisement, a pop-up graphic, an alert, a notice, a web page, a stock ticker, or a sports ticker (see column 5, lines 23-27).

Regarding **claims 12** and **25**, Shintani and Lownes disclose everything as claimed above (see claim 1). In addition, Shintani discloses the method and the source device, wherein: said action comprises one of a user driven action or a software driven action (see column 6, lines 30-40) (see column 6, lines 7-10).

Regarding **claims 13** and **26**, Shintani and Lownes disclose everything as claimed above (see claim 1). In addition, the method and the source device, further comprising: detecting at said source device an action deactivating the on-screen display; disabling said passing of said isochronous MPEG data stream carrying said on-screen display to said sink device; and providing said active isochronous MPEG data stream to said sink device (see column 7, lines 17-20).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brock N. Boss whose telephone number is (571) 270-1660. The examiner can normally be reached on Monday-Thursday 9:30-7:30 Eastern Standard Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivek Srivastava can be reached on (571) 272-7304. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

BB
December 28th, 2007

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